

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.



UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 C.F.R. 1.53(b))

Attorney Docket No. VAO-004.01

First Inventor Downey, Daniel F.

Title Athermal Annealing With Rapid Thermal Annealing System and Method

Express Mail Label No. EL-719917836 US

11000 U.S. PTO
J109/996446

11/28/01

APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

1. Fee Transmittal Form (e.g., PTO/SB/17)
(Submit an original and a duplicate for fee processing)

2. Applicant claims small entity status.
See 37 CFR 1.27.

3. Specification [Total Pages 20]
(preferred arrangement set forth below)
- Descriptive title of the Invention
- Cross References to Related Applications
- Statement Regarding Fed sponsored R & D
- Reference to sequence listing, a table, or a computer program listing appendix
- Background of the Invention
- Brief Summary of the Invention
- Brief Description of the Drawings (*if filed*)
- Detailed Description
- Claim(s)
- Abstract of the Disclosure

4. Drawing(s) (35 U.S.C.113) [Total Sheets 7]

5. Oath or Declaration [Total Pages 27]
 a. Newly executed (original or copy)
 b. Copy from a prior application (37 CFR 1.63 (d))
(for a continuation/divisional with Box 18 completed)
 i. **DELETION OF INVENTOR(S)**
 Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).

6. Application Data Sheet. See 37 CFR 1.76

ADDRESS TO:Commissioner for Patents
Box Patent Application
Washington, DC 20231

7. CD-ROM or CD-R in duplicate, large table or Computer Program (*Appendix*)

8. Nucleotide and/or Amino Acid Sequence Submission
(if applicable, all necessary)

- a. Computer Readable Form (CRF)
- b. Specification Sequence Listing on:
 - i. CD-ROM or CD-R (2 copies); or
 - ii. paper
- c. Statements verifying identity of above copies

ACCOMPANYING APPLICATIONS PARTS

9. Assignment Papers (cover sheet & document(s))

10. 37 C.F.R. §3.73(b) Statement Power of Attorney
(when there is an assignee)

11. English Translation Document (*if applicable*)

12. Information Disclosure Statement (IDS)/PTO-1449 Copies of IDS Citations

13. Preliminary Amendment

14. Return Receipt Postcard (MPEP 503)
(Should be specifically itemized)

15. Certified Copy of Priority Document(s)
(if foreign priority is claimed)

16. Request and Certification under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.

17. Other: Request for Non-Publication

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

 Continuation Divisional Continuation-in-part (CIP)

of prior application No: _____ / _____

Prior application information: Examiner _____ Group / Art Unit: _____

For CONTINUATION or DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

17. CORRESPONDENCE ADDRESS Customer Number or Bar Code Label

25181

or Correspondence address below

(Insert Customer No. or Attach bar code label here)

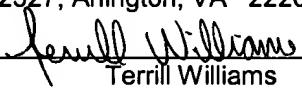
Name			
Address			
City	State	Zip Code	
Country	Telephone	Fax	

Name (Print/Type)	Kevin A. Oliver	Registration No. (Attorney/Agent)	42,049
Signature		Date	11/28/01

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Box Patent Application, Washington, DC 20231.

CERTIFICATE OF EXPRESS MAILING

I hereby certify that the foregoing document is being deposited with the United States Postal Service as First Class Mail, postage prepaid, in an envelope addressed to Box Patent Application, U.S. Patent & Trademark Office, PO Box 2327, Arlington, VA 22202, on this date of November 28, 2001.



Terrill Williams

0909544 - 142894

FEE TRANSMITTAL

for FY 2002

Patent fees are subject to annual revision.

TOTAL AMOUNT OF PAYMENT	(\$) 780.00	Attorney Docket No.	VRO-004.01
--------------------------------	--------------------	---------------------	------------

METHOD OF PAYMENT (check one)				FEES CALCULATION (continued)																																																																																																																																																																																																	
<p>1. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge indicated fees and credit any over payments to:</p> <p>Deposit Account Number <input type="text" value="06-1448"/></p> <p>Deposit Account Name <input type="text"/></p> <p><input type="checkbox"/> Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17</p> <p><input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27</p>				<p>3. ADDITIONAL FEES</p> <table border="1"> <thead> <tr> <th>Fee Code</th> <th>Large Entity Fee (\$)</th> <th>Small Entity Fee Code</th> <th>Small Entity Fee (\$)</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr><td>105</td><td>130</td><td>205</td><td>65</td><td>Surcharge - late filing fee or oath</td><td><input type="text"/></td></tr> <tr><td>127</td><td>50</td><td>227</td><td>25</td><td>Surcharge - late provisional filing fee or cover sheet</td><td><input type="text"/></td></tr> <tr><td>139</td><td>130</td><td>139</td><td>130</td><td>Non-English specification</td><td><input type="text"/></td></tr> <tr><td>147</td><td>2,520</td><td>147</td><td>2,520</td><td>For filing a request for reexamination</td><td><input type="text"/></td></tr> <tr><td>112</td><td>920*</td><td>112</td><td>920*</td><td>Requesting publication of SIR prior to Examiner action</td><td><input type="text"/></td></tr> <tr><td>113</td><td>1,840*</td><td>113</td><td>1,840*</td><td>Requesting publication of SIR after Examiner action</td><td><input type="text"/></td></tr> <tr><td>115</td><td>110</td><td>215</td><td>55</td><td>Extension for reply within first month</td><td><input type="text"/></td></tr> <tr><td>116</td><td>400</td><td>216</td><td>200</td><td>Extension for reply within second month</td><td><input type="text"/></td></tr> <tr><td>117</td><td>920</td><td>217</td><td>460</td><td>Extension for reply within third month</td><td><input type="text"/></td></tr> <tr><td>118</td><td>1,440</td><td>218</td><td>720</td><td>Extension for reply within fourth month</td><td><input type="text"/></td></tr> <tr><td>128</td><td>1,960</td><td>228</td><td>980</td><td>Extension for reply within fifth month</td><td><input type="text"/></td></tr> <tr><td>119</td><td>320</td><td>219</td><td>160</td><td>Notice of Appeal</td><td><input type="text"/></td></tr> <tr><td>120</td><td>320</td><td>220</td><td>160</td><td>Filing a brief in support of an appeal</td><td><input type="text"/></td></tr> <tr><td>121</td><td>280</td><td>221</td><td>140</td><td>Request for oral hearing</td><td><input type="text"/></td></tr> <tr><td>138</td><td>1,510</td><td>138</td><td>1,510</td><td>Petition to institute a public use proceeding</td><td><input type="text"/></td></tr> <tr><td>140</td><td>110</td><td>240</td><td>55</td><td>Petition to revive – unavoidable</td><td><input type="text"/></td></tr> <tr><td>141</td><td>1,280</td><td>241</td><td>640</td><td>Petition to revive – unintentional</td><td><input type="text"/></td></tr> <tr><td>142</td><td>1,280</td><td>242</td><td>640</td><td>Utility issue fee (or reissue)</td><td><input type="text"/></td></tr> <tr><td>143</td><td>460</td><td>243</td><td>230</td><td>Design issue fee</td><td><input type="text"/></td></tr> <tr><td>144</td><td>620</td><td>244</td><td>310</td><td>Plant issue fee</td><td><input type="text"/></td></tr> <tr><td>122</td><td>130</td><td>122</td><td>130</td><td>Petitions to the Commissioner</td><td><input type="text"/></td></tr> <tr><td>123</td><td>50</td><td>123</td><td>50</td><td>Processing fee under 37 CFR 1.17 (q)</td><td><input type="text"/></td></tr> <tr><td>126</td><td>180</td><td>126</td><td>180</td><td>Submission of Information Disclosure Stmt</td><td><input type="text"/></td></tr> <tr><td>581</td><td>40</td><td>581</td><td>40</td><td>Recording each patent assignment per property (times number of properties)</td><td>40.00</td></tr> <tr><td>146</td><td>740</td><td>246</td><td>370</td><td>Filing a submission after final rejection (37 CFR § 1.129(a))</td><td><input type="text"/></td></tr> <tr><td>149</td><td>740</td><td>249</td><td>370</td><td>For each additional invention to be examined (37 CFR § 1.129(b))</td><td><input type="text"/></td></tr> <tr><td>179</td><td>740</td><td>279</td><td>370</td><td>Request for Continued Examination (RCE)</td><td><input type="text"/></td></tr> <tr><td>169</td><td>900</td><td>169</td><td>900</td><td>Request for expedited examination of a design application</td><td><input type="text"/></td></tr> <tr> <td colspan="6">Other fee (specify) _____</td> <td colspan="2"><input type="text"/></td> </tr> <tr> <td colspan="4">*Reduced by Basic Filing Fee Paid</td> <td colspan="2">SUBTOTAL (3)</td> <td colspan="2">(\$ 40.00)</td> </tr> </tbody> </table>				Fee Code	Large Entity Fee (\$)	Small Entity Fee Code	Small Entity Fee (\$)	Fee Description	Fee Paid	105	130	205	65	Surcharge - late filing fee or oath	<input type="text"/>	127	50	227	25	Surcharge - late provisional filing fee or cover sheet	<input type="text"/>	139	130	139	130	Non-English specification	<input type="text"/>	147	2,520	147	2,520	For filing a request for reexamination	<input type="text"/>	112	920*	112	920*	Requesting publication of SIR prior to Examiner action	<input type="text"/>	113	1,840*	113	1,840*	Requesting publication of SIR after Examiner action	<input type="text"/>	115	110	215	55	Extension for reply within first month	<input type="text"/>	116	400	216	200	Extension for reply within second month	<input type="text"/>	117	920	217	460	Extension for reply within third month	<input type="text"/>	118	1,440	218	720	Extension for reply within fourth month	<input type="text"/>	128	1,960	228	980	Extension for reply within fifth month	<input type="text"/>	119	320	219	160	Notice of Appeal	<input type="text"/>	120	320	220	160	Filing a brief in support of an appeal	<input type="text"/>	121	280	221	140	Request for oral hearing	<input type="text"/>	138	1,510	138	1,510	Petition to institute a public use proceeding	<input type="text"/>	140	110	240	55	Petition to revive – unavoidable	<input type="text"/>	141	1,280	241	640	Petition to revive – unintentional	<input type="text"/>	142	1,280	242	640	Utility issue fee (or reissue)	<input type="text"/>	143	460	243	230	Design issue fee	<input type="text"/>	144	620	244	310	Plant issue fee	<input type="text"/>	122	130	122	130	Petitions to the Commissioner	<input type="text"/>	123	50	123	50	Processing fee under 37 CFR 1.17 (q)	<input type="text"/>	126	180	126	180	Submission of Information Disclosure Stmt	<input type="text"/>	581	40	581	40	Recording each patent assignment per property (times number of properties)	40.00	146	740	246	370	Filing a submission after final rejection (37 CFR § 1.129(a))	<input type="text"/>	149	740	249	370	For each additional invention to be examined (37 CFR § 1.129(b))	<input type="text"/>	179	740	279	370	Request for Continued Examination (RCE)	<input type="text"/>	169	900	169	900	Request for expedited examination of a design application	<input type="text"/>	Other fee (specify) _____						<input type="text"/>		*Reduced by Basic Filing Fee Paid				SUBTOTAL (3)		(\$ 40.00)	
Fee Code	Large Entity Fee (\$)	Small Entity Fee Code	Small Entity Fee (\$)	Fee Description	Fee Paid																																																																																																																																																																																																
105	130	205	65	Surcharge - late filing fee or oath	<input type="text"/>																																																																																																																																																																																																
127	50	227	25	Surcharge - late provisional filing fee or cover sheet	<input type="text"/>																																																																																																																																																																																																
139	130	139	130	Non-English specification	<input type="text"/>																																																																																																																																																																																																
147	2,520	147	2,520	For filing a request for reexamination	<input type="text"/>																																																																																																																																																																																																
112	920*	112	920*	Requesting publication of SIR prior to Examiner action	<input type="text"/>																																																																																																																																																																																																
113	1,840*	113	1,840*	Requesting publication of SIR after Examiner action	<input type="text"/>																																																																																																																																																																																																
115	110	215	55	Extension for reply within first month	<input type="text"/>																																																																																																																																																																																																
116	400	216	200	Extension for reply within second month	<input type="text"/>																																																																																																																																																																																																
117	920	217	460	Extension for reply within third month	<input type="text"/>																																																																																																																																																																																																
118	1,440	218	720	Extension for reply within fourth month	<input type="text"/>																																																																																																																																																																																																
128	1,960	228	980	Extension for reply within fifth month	<input type="text"/>																																																																																																																																																																																																
119	320	219	160	Notice of Appeal	<input type="text"/>																																																																																																																																																																																																
120	320	220	160	Filing a brief in support of an appeal	<input type="text"/>																																																																																																																																																																																																
121	280	221	140	Request for oral hearing	<input type="text"/>																																																																																																																																																																																																
138	1,510	138	1,510	Petition to institute a public use proceeding	<input type="text"/>																																																																																																																																																																																																
140	110	240	55	Petition to revive – unavoidable	<input type="text"/>																																																																																																																																																																																																
141	1,280	241	640	Petition to revive – unintentional	<input type="text"/>																																																																																																																																																																																																
142	1,280	242	640	Utility issue fee (or reissue)	<input type="text"/>																																																																																																																																																																																																
143	460	243	230	Design issue fee	<input type="text"/>																																																																																																																																																																																																
144	620	244	310	Plant issue fee	<input type="text"/>																																																																																																																																																																																																
122	130	122	130	Petitions to the Commissioner	<input type="text"/>																																																																																																																																																																																																
123	50	123	50	Processing fee under 37 CFR 1.17 (q)	<input type="text"/>																																																																																																																																																																																																
126	180	126	180	Submission of Information Disclosure Stmt	<input type="text"/>																																																																																																																																																																																																
581	40	581	40	Recording each patent assignment per property (times number of properties)	40.00																																																																																																																																																																																																
146	740	246	370	Filing a submission after final rejection (37 CFR § 1.129(a))	<input type="text"/>																																																																																																																																																																																																
149	740	249	370	For each additional invention to be examined (37 CFR § 1.129(b))	<input type="text"/>																																																																																																																																																																																																
179	740	279	370	Request for Continued Examination (RCE)	<input type="text"/>																																																																																																																																																																																																
169	900	169	900	Request for expedited examination of a design application	<input type="text"/>																																																																																																																																																																																																
Other fee (specify) _____						<input type="text"/>																																																																																																																																																																																															
*Reduced by Basic Filing Fee Paid				SUBTOTAL (3)		(\$ 40.00)																																																																																																																																																																																															
<p>2. EXTRA CLAIM FEES</p> <table border="1"> <thead> <tr> <th>Total Claims</th> <th>Entity</th> <th>Extra Claims</th> <th>Fee from below</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr> <td>17</td> <td>20</td> <td>= 0</td> <td>x <input type="text"/></td> <td>= 0</td> </tr> <tr> <td>Independent Claims</td> <td>-</td> <td>** = 0</td> <td>x <input type="text"/></td> <td>= 0</td> </tr> <tr> <td>Multiple Dependent</td> <td></td> <td></td> <td>x <input type="text"/></td> <td>= 0</td> </tr> </tbody> </table> <p>SUBTOTAL (2) <input type="text"/> (\$!Undefined Bookmark, TEXT130)</p>				Total Claims	Entity	Extra Claims	Fee from below	Fee Paid	17	20	= 0	x <input type="text"/>	= 0	Independent Claims	-	** = 0	x <input type="text"/>	= 0	Multiple Dependent			x <input type="text"/>	= 0																																																																																																																																																																														
Total Claims	Entity	Extra Claims	Fee from below	Fee Paid																																																																																																																																																																																																	
17	20	= 0	x <input type="text"/>	= 0																																																																																																																																																																																																	
Independent Claims	-	** = 0	x <input type="text"/>	= 0																																																																																																																																																																																																	
Multiple Dependent			x <input type="text"/>	= 0																																																																																																																																																																																																	

**or number previously paid, if greater; For Reissues, see above

SUBMITTED BY		Complete (if applicable)			
Name (Print/Type)	Kevin A. Oliver	Registration No. Attorney/Agent)	42,049	Telephone	617-832-1241
Signature	<i>Kevin A. Oliver</i>			Date	November 28, 2001

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

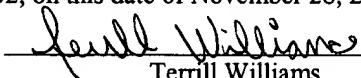
Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-203.

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

CERTIFICATE OF EXPRESS MAIL

I hereby certify that the foregoing document is being deposited with the United States Postal Service as Express Mail, postage prepaid, in an envelope addressed to U.S. Patent and Trademark Office, Box Application, P.O. Box 2327, Arlington, VA 22202, on this date of November 28, 2001.



Terrill Williams

DEPARTMENT OF COMMERCE
U.S. PATENT AND TRADEMARK OFFICE

**REQUEST AND CERTIFICATION
UNDER
35 U.S.C. 122(b)(2)(B)(i)**

First Named Inventor	Downey, Daniel F.
Title	ATHERMAL ANNEALING WITH RAPID THERMAL ANNEALING SYSTEM AND METHOD
Atty Docket Number	VRO-004.01

I hereby certify that the invention disclosed in the attached application **has not and will not be** the subject of an application filed in another country, or under a multilateral agreement, that requires publication at eighteen months after filing. I hereby request that the attached application not be published under 35 U.S.C. 122(b).

11/28/2001
Date

Kevin A. Oliver
Signature

Kevin A. Oliver 42,049

Typed or printed name

This request must be signed in compliance with 37 CFR 1.33(b) and submitted with the application **upon filing**.

Applicant may rescind this nonpublication request at any time. If applicant rescinds a request that an application not be published under 35 U.S.C. 122(b), the application will be scheduled for publication at eighteen months from the earliest claimed filing date for which a benefit is claimed.

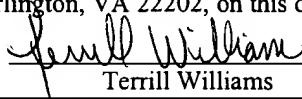
If applicant subsequently files an application directed to the invention disclosed in the attached application in another country, or under a multilateral international agreement, that requires publication of applications eighteen months after filing, the applicant **must** notify the United States Patent and Trademark Office of such filing within forty-five (45) days after the date of the filing of such foreign or international application. **Failure to do so will result in abandonment of this application (35 U.S.C. 122(b)(2)(B)(iii)).**

Burden Hour Statement: This collection of information is required by 37 CFR 1.213(a). The information is used by the public to request that an application not be published under 35 U.S.C. 122(b) (and the PTO to process that request). Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This form is estimated to take 6 minutes to complete. This time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

EXPRESS

CERTIFICATE OF FIRST CLASS MAILING

I hereby certify that the foregoing document is being deposited with the United States Postal Service as Express Mail, postage prepaid, in an envelope addressed to U.S. Patent and Trademark Office, Box Application, P.O. Box 2327, Arlington, VA 22202, on this date of November 28, 2001.



Terrill Williams

DEPARTMENT OF COMMERCE